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Our catalogue is developed with maximum care to live up to the expectations of our customers. However, no liability is accepted for possible mistakes or changes in the course of the year.

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## European Approval - Directives towbar R55

Bosal and Oris towbars are tested and approved according to the European legislation regarding towbars R55. This approval assures optimal safety, durability and quality of our towbars at all times.

## Quality

The quality management system of all Bosal manufacturing plants worldwide is ISO/TS 16949 certified with the ultimate goal to achieve zero defects and to deliver customer needs.

### Towbars / Wiring kits


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# Marketing Services

## Website

On www.Bosal.com, you can find our advanced corporate website. The website provides detailed information about the Bosal Group and the extensive product portfolio.

## Bosal web catalogues

The Bosal towbar catalogue and the Bosal exhaust catalogue are now accessible via the internet.
These web catalogues are continuously updated and give all the latest product information.
Bosal products can be searched for by car type or Bosal reference number, mounting instructions and EC approvals can easily be downloaded.

www.catalogue.bosal.com

## Printed catalogue

At the beginning of each year, before the start of the new season, Bosal publishes a new edition of the towbar catalogue. Here you will find not only a comprehensive AfterMarket program, but also a lot of useful information about towbars and electrical wiring kits.

## Product training

Bosal provides full product training seminars to ensure you keep up to date with the latest product developments for towing and wiring kits.

## Bosal helpline

0800 371475

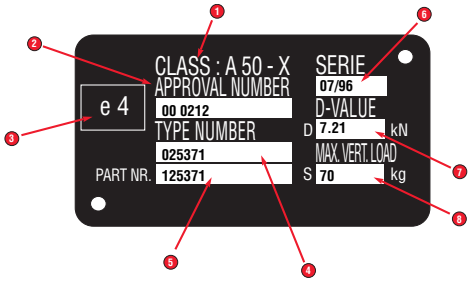
Your contact for technical queries and catalogue information.
Monday - Friday, 8.30am - 5.00pm.

## The standards

A towbar, approved to R55, meets the following criteria:

1. in line with fixation points of car manufacturer
2. in line with dimensions - towball height/distance towball - bumper
3. dynamic test (2 million cycles)
4. its approval number has to be engraved in the identification plate

## Approved towbars = RELIABILITY - SAFETY - LEGAL!




Towbar identification plate specifications according to R55 directives

1. towbar type with towball diameter of 50 mm
2. approval number = number given by the official approval authorities after dynamic test of 2 million cycles on test bench
3. approval number given by the EU member country
4. type number = reference acknowledged for approval
5. reference = commercial reference of the towbar
6. serie = production week of the towbar
7. D-value = (TLW x MTW) / (TLW + MTW) x 9,81 in N
   TLW = Total loaded weight (vehicle)
   TRW = Total rolling weight (vehicle + trailer)
   MTW = Maximum towing weight (MTW = TRW - TLW)
8. maximum vertical load S = maximum static weight on the towball authorised by the car manufacturer

## Towball height

**The towball height needs to be between 35 and 42 cm when the car is charged to the maximum load. To determine the height of the towball when designing a towbar, car manufacturer fixation points will be used as a reference.**

## Trailer weights

All trailer weights mentioned in this catalogue apply to the towbar itself and are in general, equal to the maximum trailer weights specified by the car manufaturer.

## Instructions for use

According to the R55 approval, the towbar is not allowed to cover the licence plate when not in use.

**Rough terrain**

When towing a trailer through rough terrain, the loading weight of the trailer has to be reduced by 50% and we advise that an appropriate speed for the road conditions (not exceeding 16 km/hour) is used.

**Safety hooks**

In terms of the Road Code (decree of 14/11/72) and the Official Journal EEC (n° L202/45), the trailer has to be secured automatically in case of detachment of the towbar when driving. Consequently, the user has to install a security cable or chain between the trailer and the towing hook of the towing vehicle.

**Authorised towing weight**

Your towbar has been designed to tow the maximum authorised towing weight to cover all the model platform variants. The maximum towing weight of a vehicle is specified in the manufacturer's vehicle manual. Take into account that hybrid or environmental friendly vehicles often are prohibited to tow or have a strongly limited towing weight. The manual, supplied with the vehicle, indicates the TRW (Total Rolling Weight) and the TLW (Total Loaded Weight) and calculate the difference TRW - TLW = weight of the loaded trailer.

**Tightening of the bolts**

Check that all bolts are tight after towing for 1,000 km. Mounting and demounting of a standard bolt-on Bosal towbar is not allowed unless applying new fixation bolts and nuts, tightened according the specified torque.

**Parking sensors**

Bosal strongly recommends the fitting of a detachable towbar when the car is equipped with parking sensors.

### Accidents

**Whenever a towbar is damaged as a result of an accident, it must not be repaired but replaced.**

**Stabilizers**

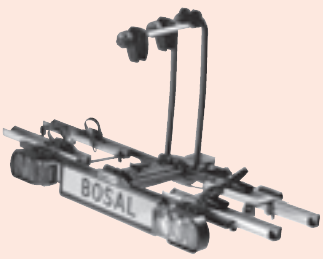
We do not accept liability in cases where additional equipment such as stabilizers and/or load distributors are fitted between the towing and towed vehicle.

## “Bosal Bike Carrier Compact”

**Foldable bike carrier for two bicycles**

Our bicycle carriers offer your vehicle an economical solution for carrying up to 2 bicycles. Each carrier is desgned to be installed directly onto your towbar.

- ✓ Easy installation/fixation of bikes
- ✓ Easy to tilt
- ✓ Easy to store - foldable (50x70x22cm)
- ✓ Storage bag included
- ✓ Anti-theft security
- ✓ Mounting by a quick connector
- ✓ 7/13 pole connector
- ✓ Maximum load 60 kg
- ✓ Suitable for electrical bicycles




**070-236**
**“Bosal Bike Carrier Compact”**
foldable bike carrier for two bicycles

## Easy go, pack and store!

1. Remove the bicycles.

2. Fold the bike carrier.

3. Pack the bike carrier in its storage bag (included).

4. Store the bike carrier (dimensions 50x70x22 cm).

## Universal Cross Bars

### Just Pack Up and Leave

In less than no time at all your vehicle can be ready for departure. Bosal's universal cross bars offer all estates and MPV's an economical solution for carrying transport accessories such as roof boxes, ski cariers or bicycle carriers.

### Easy Mounting, Smart Design

Bosal cross bars have a smart design and are extremely easy to mount. The anti-theft lock ensures a steady and safe fixture. With a maximum load weight of 100kg they meet the most stringent requirements.

### Safety

Bosal is an important supplier of cross bars to the automotive industry. Thanks to our many years experience, this product line has been developed to deliver optimum quality, durabiilty and safety.

**055-707**
716mm - 970mm

**055-907**
926mm - 1180mm

- ✓ Easy to mount
- ✓ Aerodynamic Design
- ✓ Anti theft locking system
- ✓ Maximum Loading Weight : 100kg

VERTICAL
DETACHABLE

# Perfect design for the highest demands

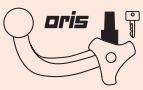
**Latest trends**

In these times of increasing individualisation, detachable towbars are the trend. After detaching the towball, the system is - depending on the type - completely or almost completely invisible. The handling is comfortable and easy, and the aesthetic design of the vehicle remains intact.

## AK41

**The ultimate system for the demanding motorist**

- ✓ OE competence for the AfterMarket
- ✓ Vertical system, completely invisible when detached
- ✓ High D-values, for towing of heavy loads
- ✓ Fully automatic locking mechanism
- ✓ User friendly

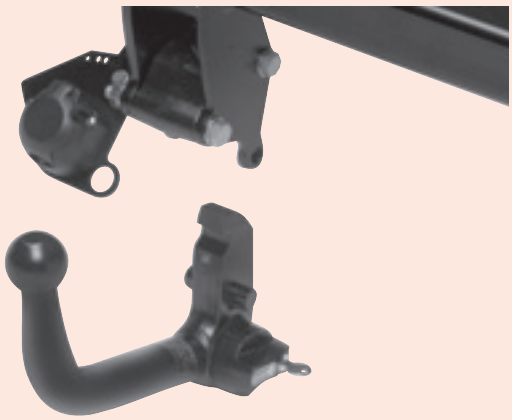



Oris vertically detachable (AK41)
Three-ball locking mechanism

## AK6

**The standard in proven Bosal quality**

- ✓ TOP quality
- ✓ Vertical system, completely invisible when detached
- ✓ Fully automatic locking mechanism
- ✓ User friendly



Vertically detachable (AK6)

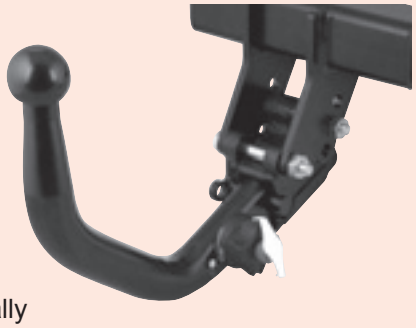
# HORIZONTAL DETACHABLE

## Quick and practical

### AK10

**Competitive detachable system**

- ✓ Practical and modern design
- ✓ Semi automatic locking mechanism
- ✓ Angeled position for less visibility



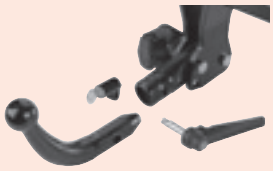
Horizontally detachable (AK10)

The AK10 is a detachable towbar specially designed for small and economy cars without compromising the performance of the product. All AK10 systems are equipped with the OE based detachable system.

### ECOFIT

**The detachable system for everybody's purse**

- ✓ Excellent price-value ratio
- ✓ Easy mounting



ECO Ecofit

### AK4

**For the ambitious motorist**

- ✓ Fully automatic locking mechanism
- ✓ User friendly

Horizontally detachable (AK4)

# RIGID TOWBARS

## The Classics

### Standard bolt-on

**For frequent and heavy towing**

- ✓ Fixed towball that cannot be removed without tools
- ✓ Recommended for maximum towing weights

Demountable

### Welded

**Designed for the highest fitability**

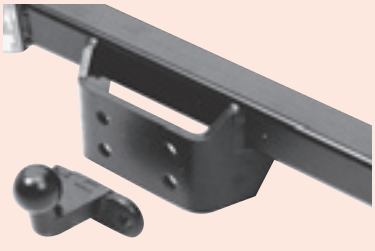
- ✓ Towball is welded to the subframe
- ✓ Towball is not removable

Welded

### Flange ball

**Recommended for commercial use and off-road vehicles**

- ✓ Recommended for maximum towing weights
- ✓ Is compatible with two and four hole fixings (height adjustable), depending on the vehicle type



Flange ball (height adjustable)

# Leading OE-supplier in Europe

Following a Joint Venture in 2006, Bosal Oris is today the largest manufacturer of towbars and worldwide the leading OE-supplier for the German, as well as the international, Automotive Industry.

*The research and development centre of Bosal Oris in Markgröningen (Germany)*

The Bosal Oris Portfolio includes development, manufacturing and sales of

- ✓ Towbars with rigid, detachable and retractable towballs
- ✓ Wind deflectors for cabrios
- ✓ Roofbars and roofracks
- ✓ Accessories for Off-the-Road vehicles

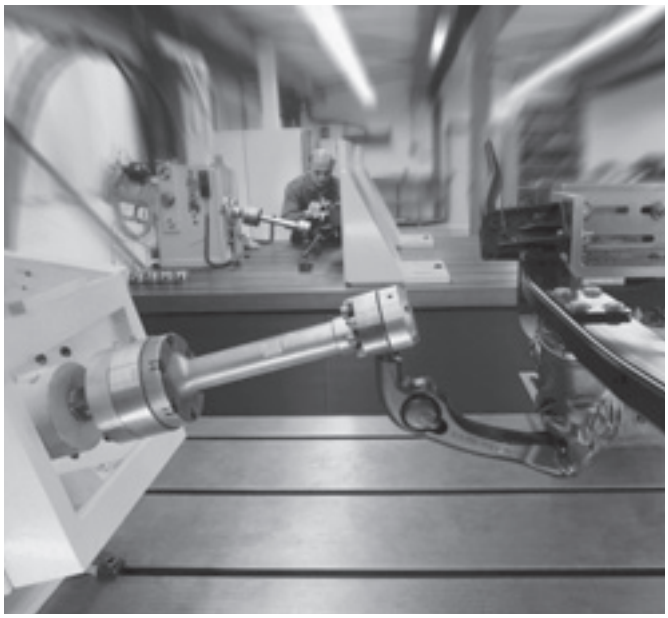
Bosal Oris is the forerunner in retractable towbars and was the first manufacturer to supply these technological systems directly to the assembly line of the global automotive manufacturers. The Bosal Oris high development competence is also proven by the fact that the world's first detachable towball in 1985 also came from the Oris company.

Bosal Oris develops towbar systems in close cooperation with the car manufacturers. These towbar systems fulfill the most severe norms at the highest manufacturing level. More than 150 patents demonstrate the strong culture of innovation.

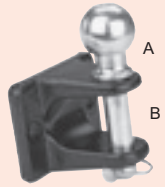
For the AfterMarket, a large and up-to-date range with a wide variety of towball systems is available.
In OE quality!

Our Original Equipment customers for towbars are:

| | | |
|---|---|---|
| **AUDI** | **LANDROVER** | **PORSCHE** |
| **BMW** | **MAZDA** | **RENAULT** |
| **CITROEN** | **MERCEDES-BENZ** | **TOYOTA** |
| **DACIA** | **MINI** | **VAUXHALL** |
| **FORD** | **OPEL** | **VW** |
| **GM** | **PEUGEOT** | |



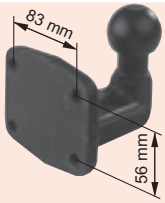
## Couplings



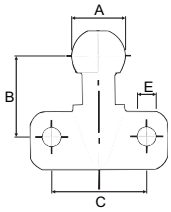

**000-214 ***
A = max 1500 kg
B = max 3500 kg

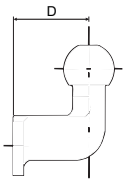
## Balls with flange

**022-844**
->I 3500 kg
D-value 20,2 kN
EC 3361




**022-834**
->I 3500 kg
D-value 31 kN
EC 1168




| | | A | B | C | D | E |
|---|---|---|---|---|---|---|
| 022-844 | black | 50 | 80 | 90 | 75 | M16 |

## Safety cable

**022-724**
safety cable engages the parking brake in case of detachment of the caravan or trailer ± 100cm

## Vertical load meter

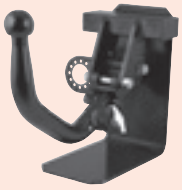
**026-434**
measures the vertical weight of the trailer coupling

## Displays

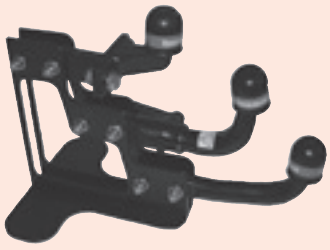
**AK6**
**269-818**
310x230x340 mm

**Ecofit**
**269-808**
310x210x280 mm

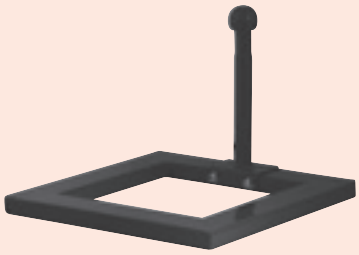
**AK41**
**269-034**
310x150x390 mm



**AK10**
**269-347**
260x150x310 mm

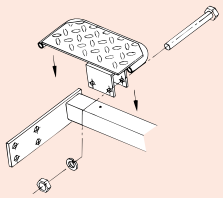


**269-828**
3 Tier Display Neck
includes
- Flange Towball
- Swan Neck
- Ecofit Towball



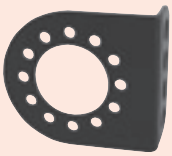
**269-153**
Display bike carrier

## Universal footboard

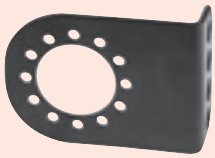


**022-374**
for towbar with 60 mm square section tube
240 x 420 mm

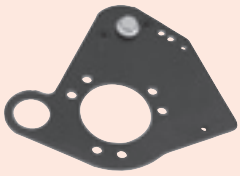
## Socket plate



**024-184**
metal short



**024-194**
metal long



**026-254** left
**026-274** right
**+**
**026-244**
rotating plate
left and right

## Ecofit

**023-774**

**024-624**
new design

## Cover plates

**022-914**
for type AK4-AK6

**023-644**
for type AK4-AK6 with screwed housing

**024-614**
for type AK4-AK6
with screwed housing
new design

**023-874**
for type AK11

**023-884**
for type AK40

**026-234**
for type AK41

## Ball caps

**022-124**
black plastic with Bosal logo

## Universal wiring kits

**030-008**

Universal Electrical Towing Kit : Single Socket 12N (Standard)

**030-018**

Universal Electrical Towing Kit : Twin Socket 12N plus 12S (Supplementary)

## 13 pin euro trailer socket wiring tester

**037-904**

Optional 7 pin adaptor 023-654 required to test 7 pin sockets.
From January 2012 Every MOT station is required to have a trailer socket wiring tester.

- ✓ VOSA mandatory requirement for class III, IV, V and VII
- ✓ VOSA approved
- ✓ 2- year warranty

## Can-Bus finder

**029-194**
Can-Bus tester

## Lightmate Wiring Kit Tester

**023-844**
Lightmate Tester for vehicles with 7/13 pole socket and trailers/caravans with 7/13 pole socket

After connecting the towbar and the wiring kit, a light light function check is essential.

The Bosal Lightmate checks the safety function of all modern vehicles and trailers. Not only does this compact device meet the most stringent testing requirements, it is also very simple to use.

In combination with a special power adapter, battery or seperate battery pack, the Lightmate tester can be used to check the lighting on trailers or caravans.

The Bosal Lightmate is built into a sturdy case for solid
protection and easy travelling. Each check is fully illustrated with a step-by-step process in a comprehensive user manual making it quick and simple to carry out your check.

- ✓ Solid plastic case for maximum protection
- ✓ Robust switches for use in any environment
- ✓ 7 & 3-pin plug socket connection
- ✓ Voltage drop to simulate trailer/caravan
- ✓ Automatic fuse
- ✓ Tested according to ISO 1724 and DIN 11446

## Plugs and sockets

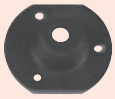
**023-384**
7-pole plastic socket
splash water proof

**022-434**
7-pole plastic socket with
rear fog lamp switch-off
splash water proof

**023-744**
7-pole ISO with micro switch

**026-314**
7-pole metal socket

**022-634**
protection seal



**023-594**
protection seal

**028-844**
socket cover

**022-584**
7-pole plastic plug

**022-594**
7-pole metal plug

## Adapter cables

**035-624**
13pin - 12N/12S adapter

**035-724**
12N/12S - 13pin adapter

## Adapter sockets

**023-394**
from 7-pole socket to
13-pole DIN plug

**023-984**
13pin - 12N/12S adapter

**022-504**
mini adapter from 13-pole
socket DIN to 7-pole plug

**023-654**
quick adapter from 7-pole
socket to 13-pole DIN plug

## 13-pole plug - sockets conforming to DIN

**023-604**
13-pole high socket with
rear fog lamp switch-off
protection seal,
bolts and nuts included

**023-964**
13-pole low socket with
rear fog lamp switch-off

**023-764**
13-pole DIN with
micro switch

**022-454**
13-pole plug DIN